AGENCY USE ONLY				
PERMIT NO.: MTG010235	Date Rec'd.: 11/4/13	Amount Rec'd.: $600	Check No.: ✓ #6812	Rec'd By: bs

RECEIVED
NOV 04 2013
DEQ/WPB
PERMITTING & COMPLIANCE DIV.

Montana Department of
ENVIRONMENTAL QUALITY

WATER PROTECTION BUREAU

FORM **NOI**

Notice of Intent (NOI) for Montana Pollution Discharge Elimination System Application for New and Existing Concentrated Animal Feeding Operations

The Application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO) or Aquatic Animal Production Facility. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete will be returned. You must maintain a copy of the completed application form for your records.

Section A - Application Status *(Check one):*

- ☐ New — No prior application submitted for this site.
- ☐ Resubmitted — Permit Number: MTG _____
- ☑ Renewal — Permit Number: MTG 0 1 0 2 3 5 — 11/5/13
- ☐ Modification — Permit Number: MTG _____

Section B - Facility or Site Information (*See instruction sheet.*):

Site Name: Rimrock Colony

Site Location: (36N-4W-S11)

Nearest City or Town: Sunburst County: Toole

Latitude: 48.8958 Longitude: -112.0953

Date Facility began operation? 1963

Is this facility or site located on Indian Lands? ☐ Yes ☑ No

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name: Zach Hofer

Mailing Address: PO Box 154

City, State, and Zip Code: Sunburst, MT 59482

Phone Number: 1-406-937-3045

Is the person listed above the owner? ☐ Yes ☑ No

Status of Applicant *(Check one)* ☐ Federal ☐ State ☑ Private ☐ Public ☐ Other (specify)

Section D - Existing or Pending Permits, Certifications, or Approvals: ☐ None

☑ MPDES CAFO Discharge Permit ☐ RCRA _____

☐ PSD (Air Emissions) _____ ☐ Other _____

☐ 404 Permit (dredge & fill) _____ ☐ Other _____

Section E – Standard Industrial Classification (SIC) Codes:

Provide at least one SIC code which best reflects the construction activity of project described in Section H.			
Code	**A. Primary**	**Code**	**B. Second**
1	213	2	252
Code	**C. Third**	**Code**	**D. Fourth**
3	241	3	211

Section F - Facility or Site Contact Person/Position:

Name and Title, or Position Title Zach Hofer (Farm Boss)

Mailing Address Same as above

City, State, and Zip Code Same as above

Phone Number Same as above

Section G – Receiving Surface Waters(s):

Outfall/Discharge Locations: For each outfall, List latitude and longitude to the nearest second and the name of the receiving waters			
Outfall Number	**Latitude**	**Longitude**	**Receiving Surface Waters**
001	48.8926	-112.0900	Pothole 1
002	48.8961	-112.0854	Pothole 2
003	48.8938	-112.0820	Pothole 3
004			
005			

Map: Attach a topographic map extending one mile beyond the property boundaries or the site activity identified in Section B depicting the facility or activity boundaries, major drainage patterns, and the receiving surface waters, stated above. Also identify the specific location of the production area, and land application area(s).

Is the receiving water on the 303(d) list for nutrients (nitrogen and/or phosphorus) ☐ Yes ☑ No

Section H – Concentration Animal Feeding Operation Characteristics

Waste Production, Storage and Disposal

Animal type	Number in Open Confinement	Number Housed Under Roof
☐ Mature Dairy Cows	50	260
☐ Dairy Heifers	50	
☐ Veal Calves		
☐ Cattle (not dairy or veal)	700	
☑ Swine (55 lbs or over)		2384
☑ Swine (55 lbs or under)		1300
☐ Horses		
☐ Sheep or Lambs		
☐ Turkeys		
☐ Chickens (broilers)		2000
☐ Chickens (layers)		10,000
☐ Ducks		1000
☐ Other (Specify: Pullets)		5000
☐ Other (Specify:)		
☐ Other (Specify:)		

Manure, Litter and/or Wastewater Production and Use.

How much manure, litter, and process wastewater is generated annually by the facility?

Solid (tons): 1500 Liquid/Slurry (gallons): 6,500,000

If land applied, how many acres of land under control of the permit applicant are available to apply the manure, litter, or process wastewater generated from the facility? (Note: Do not include setback distances in available acreage

4263 Acres

How much manure, litter, and process wastewater is transferred to other persons per year? (estimated) Solid (tons): none Liquid/Slurry (gallons): none

Were the containment structures built after February 2006?

- ☑ Do the waste containment structures have 10 feet of separation between the pond bottom and any bedrock formations?
- ☑ Do the waste containment structures have 4 feet of separation from the pond bottom and any ground water?
- ☐ Were any of the waste containment structures built within 500 feet of any existing well?

Type of Containment/Storage	Total Capacity	Units (gallons or tons)	Days of Storage
☐ Anaerobic Lagoon			
☑ Storage Pond #1	8,000,000	gallons	> 365
☐ Storage Pond #2			
☐ Storage Pond #3			
☐ Storage Pond #4			
☐ Storage Pond #5			
☐ Above Ground Storage Tank			
☐ Below Ground Storage Tank #1			
☐ Below Ground Storage Tank #2			
☐ Underfloor Pits			
☐ Roofed Storage Shed			
☐ Concrete Pad	1500	tons	365
☐ Impervious Soil Pad			
☐ Other (Specify: Dry Lot)	2000	tons	>3 65
☐ Other (Specify:)			

Physical Data for CAFO

Nutrient Management Plan

All Concentrated Animal Feeding Operations seeking permit coverage after July 31, 2007 are required to complete and implement a Nutrient Management (NMP). The NMP must be submitted to the Department using the form provided by the Department (Form NMP). Check the box below that applies and provide the required information. The NMP must be developed in accordance with ARM 17.30.1334 and implemented upon the effective date of permit coverage. (Check One)

☑ Does the facility have an NMP?

Date NMP was developed: 2009

Date NMP was last modified: _____

☐ NMP has not been prepared; provide detailed explanation below

Section I – Supplemental Information

Section J - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

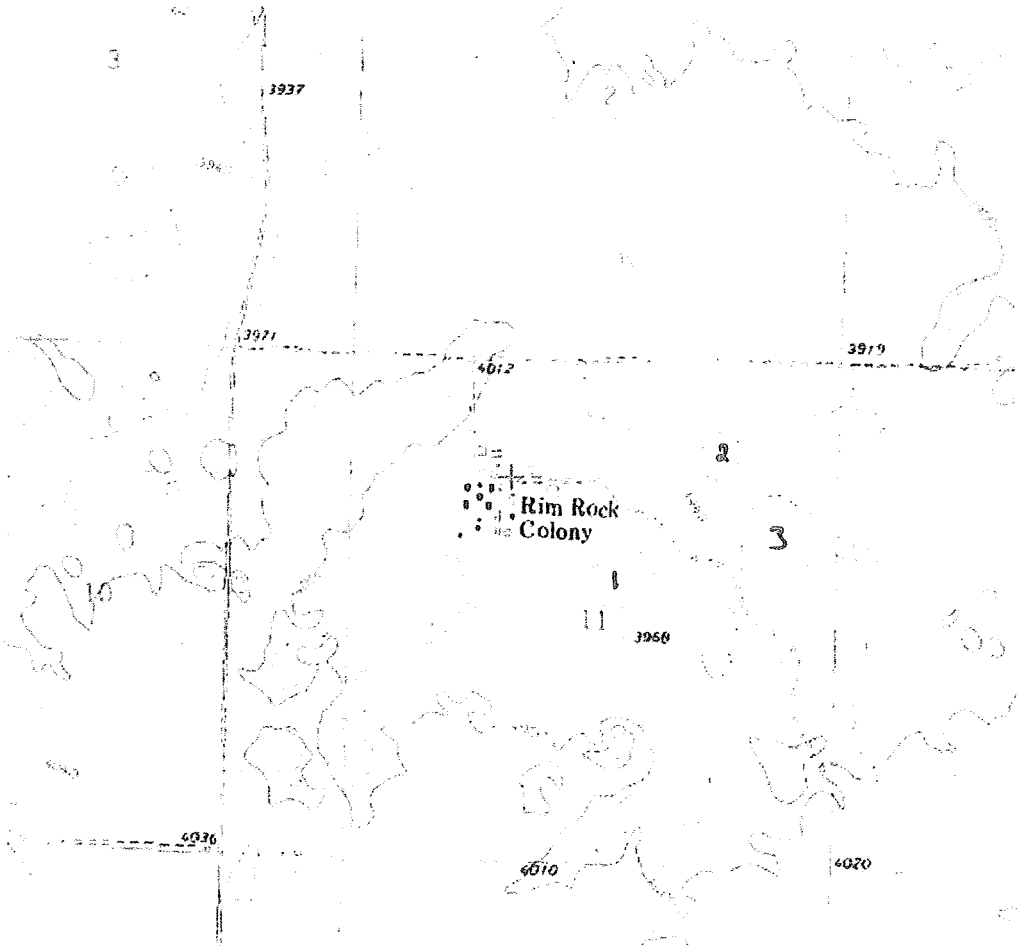
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)		
Zach Hofer		
B. Title (Type or Print)		C. Phone No.
Farm Manager / Boss		406-937-3045
D. Signature		E. Date Signed
Zach J. Hofer		10-30-13

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED
NOV 04 2013
DEQ/WPB
PERMITTING & COMPLIANCE DIV.


3937
3971
4012
3919
Rim Rock
Colony
2
3
1
11
3960
10
4030
4010
4020

AGENCY USE ONLY				
PERMIT NO.:	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:
MTG 010235	11/4/13	$600	✓#6812	bs

Montana Department of
ENVIRONMENTAL QUALITY
WATER PROTECTION BUREAU

RECEIVED
NOV 04 2013
DEQ/WPB
PERMITTING & COMPLIANCE DIV.

FORM	
NMP	**Nutrient Management Plan**

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A – NMP Status:

- ☐ New — No prior NMP submitted for this site.
- ☐ Resubmitted — Previous NMP found incomplete.
- ☑ Modification — Change or update to existing NMP.
- ☐ New 2013 — New 2013 version of NMP.

Section B – Facility Information:

Facility Name Rimrock Colony

Facility Location (36N-4W-S11)

Nearest City of Town Sunburst County Toole

Section C – Applicant (Owner/Operator Information):

Owner or Operator Name Zach Hofer

Mailing Address PO Box 154

City, State, and Zip code Sunburst, MT 595482

Facility Phone Number 1-406-937-3045

Email

Section D – NMP Minimum Elements:

1. Livestock Statistics		
Animal Type and number of animals	**# of Days on Site (per year)**	**Annual Manure Production (tons, cu. yds. or gal**
1. Hog > 55 lbs 2384	365	2,000,000 g
2. Hog < 55lbs 1300	365	1,000,000 g
3. Dairy Cows 310	365	2,000,000 g
4. Dairy Heifers 50	365	650 tons
5. Broilers 2000	365	500,000 g
6. Layers /Pullets 15000	365	1,000,000 g
7. Beef steers 700	60	800 tons
8. Ducks 1000	120	50 tons

Method used for estimating annual manure production:

Distributed annual production of manure by class and size based on average production of 6,500,000 gal and 1500 tons.

2. Manure Handling

a. Describe Manure handling at the facility:
Liquid manure gravity flows to underfloor storage tank then pumped as needed to the separator. Solid manure is scraped and stored on Dry Lot or Separator pad. Solid and liquid waste is applied by spreader to fields after harvest each fall.

b. Frequency of Manure Removal from confinement areas:
Spreading waste applications occur before and after crop production

c. Is this manure temporarily stored in any location other than the confinement area? ☐ Yes ☑ No
If so then how and where?

d. Is manure stored on impervious surface? ☑ Yes ☐ No
If yes, describe type and characteristics of this surface:

A three walled concrete storage pad is located adjacent to the solid waste separator and a packed earth dairy lot provides an anaerobic seal.

3. Waste Control Structures					
Waste Control Structures (name/type)	**Length (ft.)**	**Width (ft.)**	**Depth (ft.)**	**Volume (cubic ft. or gallons)**	**Number of days of storage**
1. Pond 1	300 ft	150 ft	12 ft	8,000,000 g	> 365
2. Concrete pad	80 ft	80 ft	8 ft	1500 tons	365
3. Dry lots	300 ft	300 ft	1.5 ft	2000 tons	> 365
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

What is the 24 hr. 25 yr. storm event at this facility 3 inches WRCC

Production area: 20 **acres. Type of lot (dirt or paved):** dirt/gravel

Area contributing drainage form outside CAFO that enters confinement areas and waste storage, conveyance, or treatment structures: Less than 5 **acres.**

What is the annual precipitation during the critical storage period 1.12 inches WRCC

How much freeboard do the pond(s) have More than 24 inches

4. Disposal of Dead Animals.

Describe how dead animals are disposed of at this facility:

Animals are buried in a disposal pit and covered with earth within 48 hours.

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

All Swine and Poultry production is enclosed. Building run-off is directed away from waste storage facilities and into clean water evaporation ponds. A clean water diversion separates holding pond from run-off. Facility was reviewed by NRCS and appropriate runoff structures were installed via EQIP contract for a CNMP.

6. Prohibiting Animals and Wastes from Contact with State Waters

Describe how animals and wastes are prohibited from direct contact with state waters:

No confined animals are in contact with State waters. See above

Describe how Chemicals and other contaminants are handled on-site:

All chemicals are stored within covered concrete storage outside of the manure production area.

7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Production Area BMP's

All clean water is diverted away from waste storage areas by drainage. All swine, Poultry production is indoors. See previously provided information. Manure is removed and applied to fields in a timely manner. A Comprehensive Nutrient management plan was developed for this site by NRCS.

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

never spray irrigating waste on to frozen ground: consulting with the Department prior to applying any liquid waste to frozen or snow-covered ground; applying wastes at agronomic rates.

Land Application BMP's

Liquid manure is applied by as as part of a Comprehensive Nutrient Management Plan. A minimum of 20 feet is maintained for manure application set backs. Grass filters are present along drainage ways and field borders. See previously submitted maps for locations. Solid manure is applied in the fall before freeze up at agronomic rates.

Buffers	☑ Yes ☐ No	**Conservation Tillage**	☑ Yes ☐ No
Constructed Wetlands	☐ Yes ☐ No	**Grass Filter**	☑ Yes ☐ No
Infiltration Field	☐ Yes ☐ No	**Residue Management**	☑ Yes ☐ No
Set backs	☑ Yes ☐ No	**Terrace**	☐ Yes ☐ No

Other examples

8. Implementation, Operation, Maintenance and Record Keeping – Guidance

The permittee is required to develop guidance addressing implementation of NMP, proper operation and maintenance of the facility, and record keeping as described in Part 2 of the permit.

Has a guidance document been developed for the facility? ☑ Yes ☐ No

Certify the document address the following requirements:

Implementation of the NMP:	☑ Yes ☐ No
Facility operation and maintenance:	☑ Yes ☐ No
Record keeping and reporting	☑ Yes ☐ No
Sample collection and analysis:	☑ Yes ☐ No
Manure transfer	☐ Yes ☑ No

Provide name, date and location of most recent documentation:

[redacted]

MSU Extension service CAFO record keeping Sheets last updated December 2012. (Colony)
Agvise Laboratories September 2012 Soils. (Colony)
Agvise Laboritories September 2013 Manure. (Colony)

If your answer to any of the above question is no, provide explanation:
All manure is field applied within the current Nutrient Management plan.

Section E – Land Application

Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?

☑ Yes If yes, then the information requested in Section E must be provided.

☐ No If no, then provide an explanation of how animal waste at this facility are managed.

Manure application maps were provided in the original NMP with the documentation required below.

Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures
- The location of any downgradient sinkholes
- The location of any downgradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:

Manure is applied an injection system mounted to a tool bar pulled by a tractor. Flow Meter installed.

Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

Other (describe)

Manure sampled annually as listed above.

Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe)

All fields receiving manure are annually sampled prior to nutrient budget development.

Phosphorus Risk Assessment

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

Nutrient Budget Worksheet

Field identification: Example Year: Example Crop: Spring Wheat					
Expected Crop Yield: 50 Bushels/acre					
Phosphorus index results or Phosphorus application from soil test: 26 PPM P Soil test					
Method of Application: Tool bar sweep Injection (90 % efficiency)					
When will application occur: October					
Nutrient Budget			Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre	165 lbs	31 lbs	EB 161, Table 21
2	(-)	Credits from previous legume crops, lbs/ac	22 lbs	NA	Soil Test N
3	(-)	Residuals from past manure production lbs/acre	NA	NA	
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	20 lbs	O	Starter Fert.
5	(-)	Nutrients supplied in irrigation water, lbs/acre	NA	NA	
6		**= Additional Nutrients Needed, lbs/acre**	123 lbs	31 lbs	EB 161 Table 21
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	21 lbs/1000	4.6 lbs/1000	Agvise Lab
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	.90	1	NRCS
9		**= Available Nutrients in Manure, lbs/ton or lbs/1000 gal**	19 lbs/1000	4.6 lbs/1000	
10		Additional Nutrients needed, lbs/acre (calculated above)	123 lbs	31 lbs	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	19 lbs/1000	4.6 lbs/1000	
12		**= Manure Application Rate, tons/acre or 1000 gal/acre**	6474 gal/ac	6739 gal/ac	(Nitrogen Based)

Comments:
The Crop Rotation for this operation was provided in the original Nutrient Management Plan.
This example shows the Nitrogen application as more limiting even at 26 PPM Phosphorus in the soil.
The 2013 and all subsequent year nutrient budgets will be submitted with the annual AR2 form.

Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
Zach Hofer	
B. Title (Type or Print)	**C. Phone No.**
Farm Manager / Farm Boss	406-937-3095
D. Signature	**E. Date Signed**
Zach J. Hofer	10-30-13

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED
NOV 04 2013
DEQ
PERMITTING & COMPLIANCE

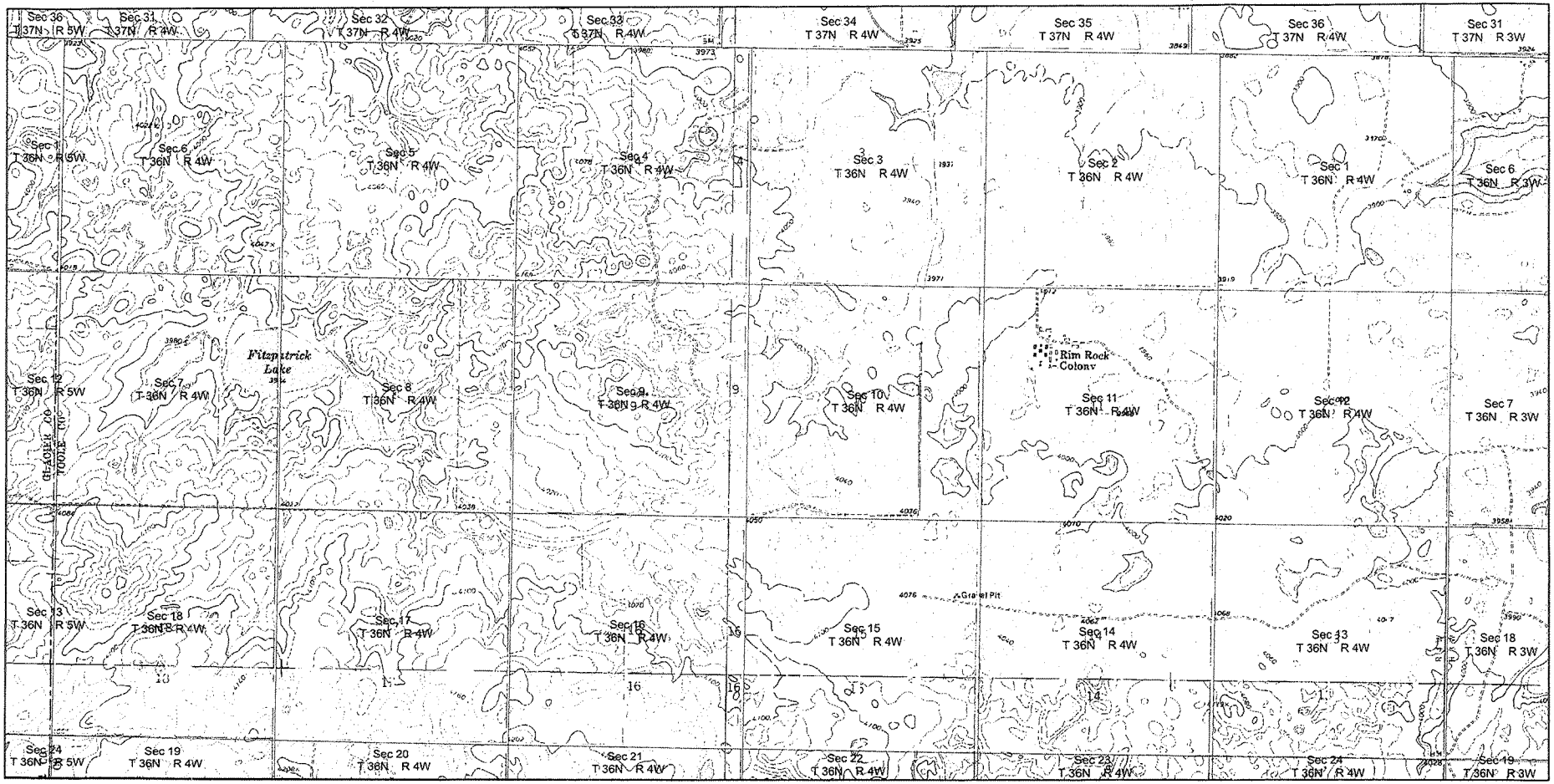
Spreadable Acres

Date: 1/9/2009

Customer(s): RIMROCK COLONY

Legal Description: Sec.1-18,T36N-R4W

Field Office: SHELBY FIELD OFFICE
Agency: USDA-NRCS
Assisted By: KAISER, AMY L
State and County: MT, TOOLE



Legend

SpreadableAcres_2008

Sec-Town-Rang

1,800 0 1,800 3,600 5,400 7,200 Feet

N

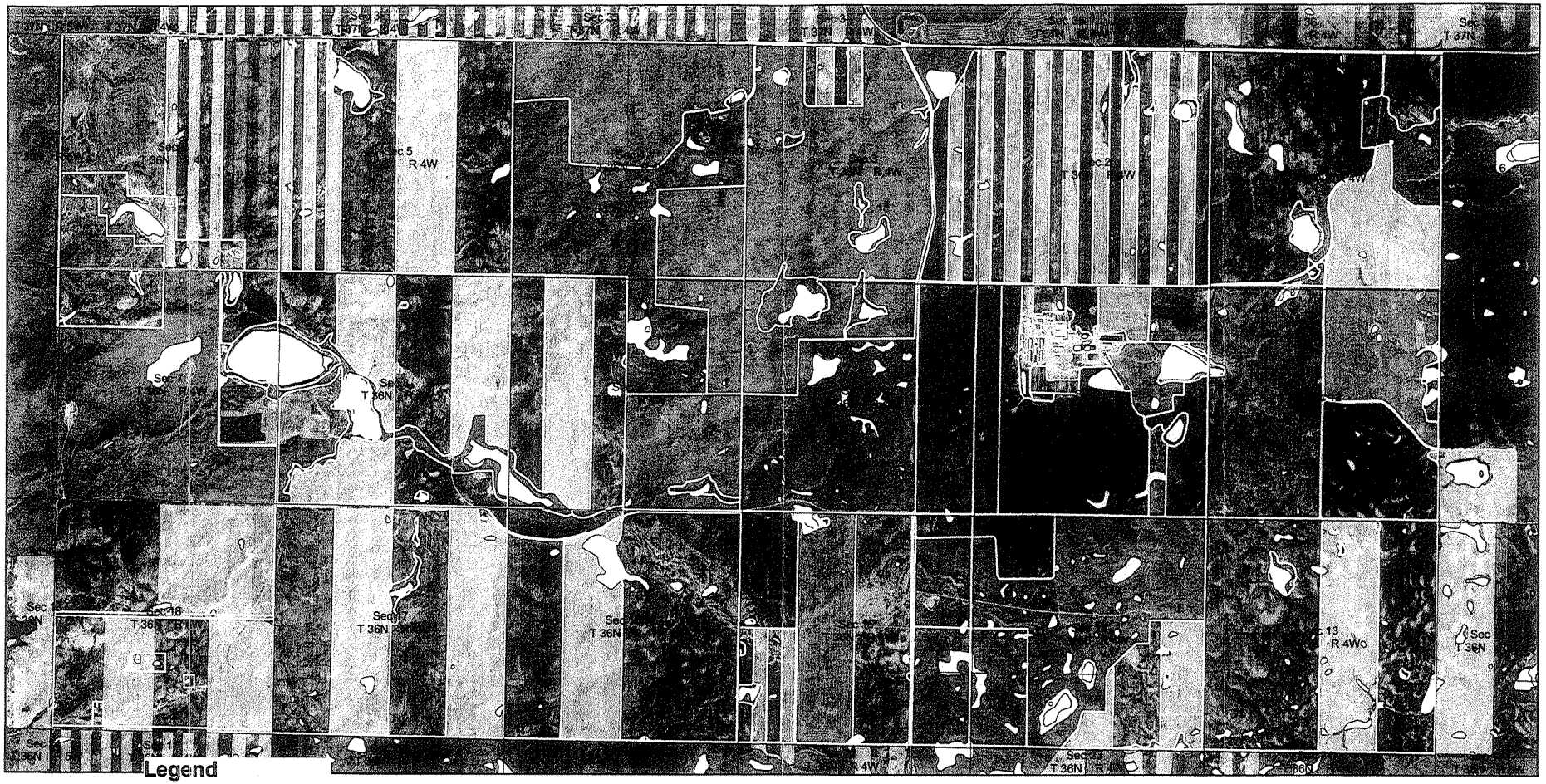
Spreadable Acres

Date: 1/9/2009

Customer(s): RIMROCK COLONY

Legal Description: Sec.1-18,T36N-R4W

Field Office: SHELBY FIELD OFFICE
Agency: USDA-NRCS
Assisted By: KAISER, AMY L
State and County: MT, TOOLE

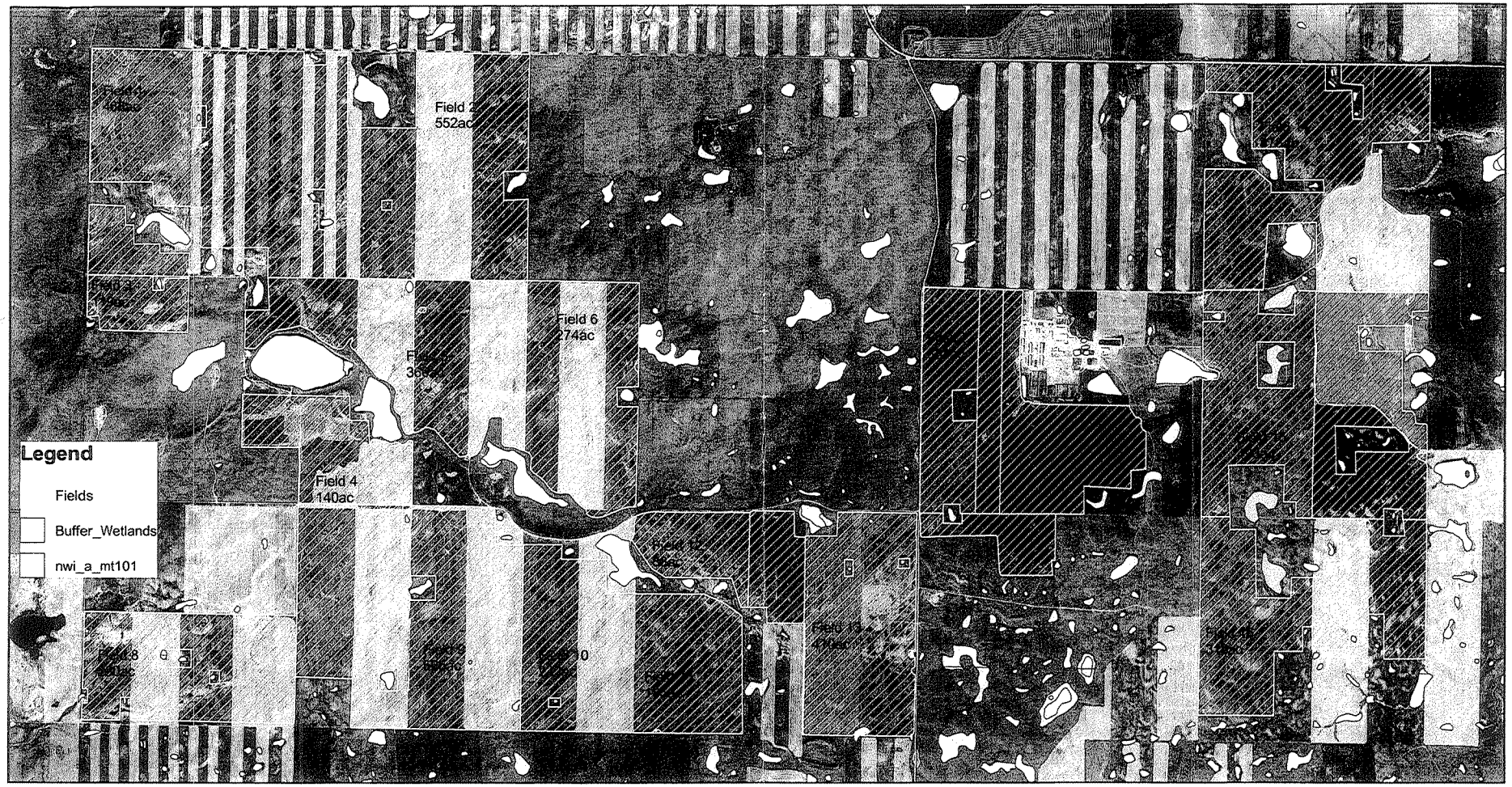


Spreadable Acres

Date: 1/9/2009

Customer(s): RIMROCK COLONY
Legal Description: Sec.1-18,T36N-R4W

Field Office: SHELBY FIELD OFFICE
Agency: USDA-NRCS
Assisted By: KAISER, AMY L
State and County: MT, TOOLE



2,000 0 2,000 4,000 6,000 8,000
Feet

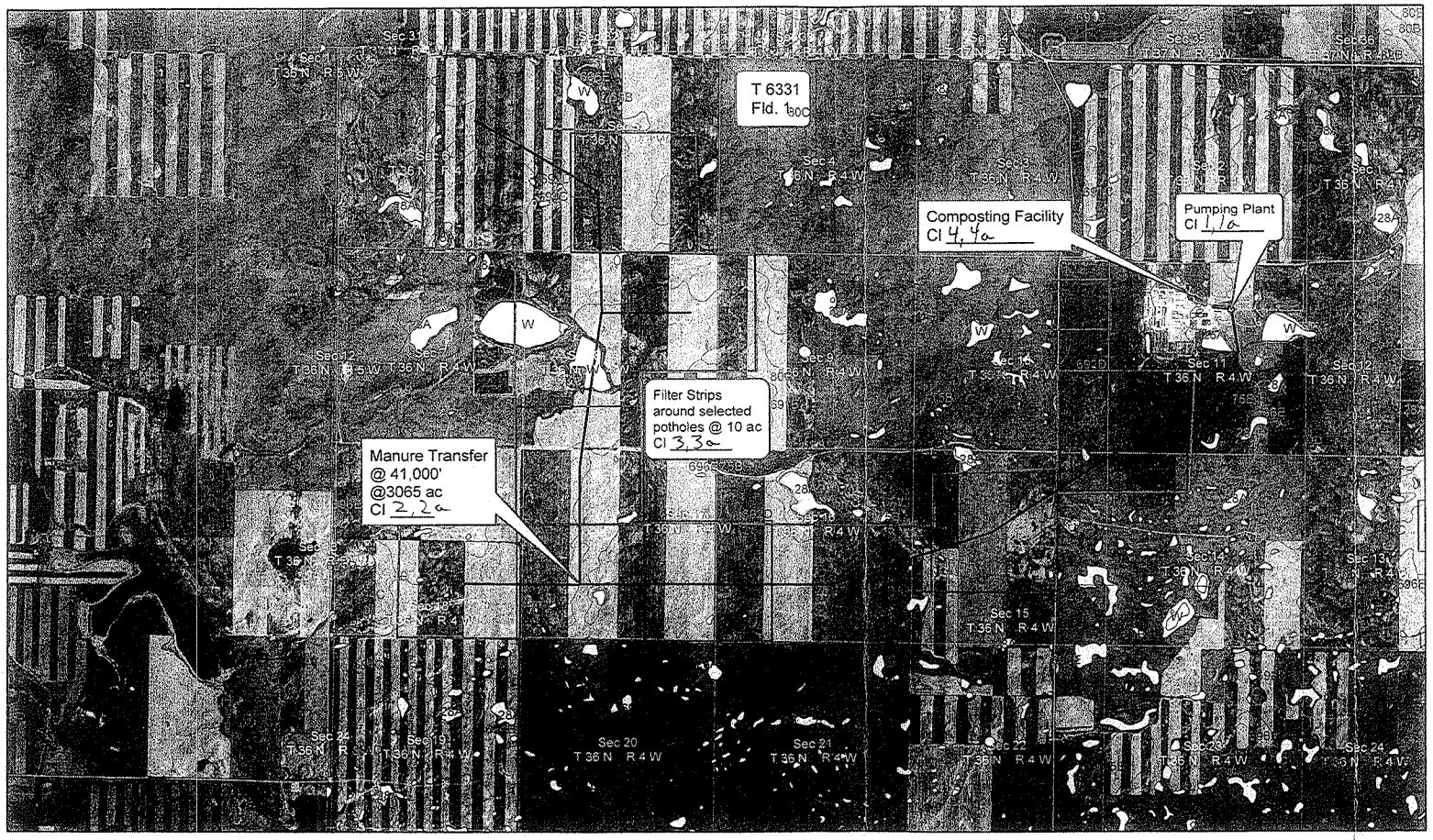
N

Plan Map

Date: 6/14/2007

Customer(s): RIMROCK COLONY
District: TOOLE COUNTY CONSERVATION DISTRICT

Field Office: SHELBY SERVICE CENTER
Agency: NRCS
Assisted By: Misty A Vermulm



Legend

- Practices (points)
- Practices (polygons)
- Practices (lines)
- nwi_a_mt101
- soil_a_mt101
- plss_a_mt101

Scale: 1" = 3000'

2,400 0 2,400 4,800 7,200 9,600 Feet

N

Soils Map

Date: 6/14/2007

Customer(s): RIMROCK COLONY

Field Office: SHELBY SERVICE CENTER
Agency: NRCS
Assisted By: Misty A Vermulm

Legend

- <all other values>
- Buffer_Wetlands
- nwi_a_mt101
- soil_a_mt101
- plss_a_mt101
- Buffer 100'

2,100 0 2,100 4,200 6,300 8,400 Feet

N

RECEIVED
OCT 14 2014
DEQ
PERMITTING & COMPLIANCE DIV